PATENT COOPERATION TREATY

See form PCT/ISA/220 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis.1) Date of mailing (duprinor/thypear) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION See paragraph 2 below International application No. International application No. 29.12.2004 PCT/IJS2/004.043950 Potential Patent Classification (IPC) or both national classification and IPC CO/D333/40, A61/K31/331, A61/P35/00, G01/N33/68 Applicant THE BRIGHAM AND WOMEN'S HOSPITAL, INC. 1. This opinion contains indications relating to the following items: Box No. I Priority Box No. II Priority Box No. IV Lack of unity of invention Box No. NV Lack of unity of invention Box No. VI Certain documents cited Box No. VI Certain documents cited Box No. VII Certain detects in the international application Box No. VIII Certain observations on the international application If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Plule 68.1 bis(5) that written opinions of the IPEA, has applicant is invited to submit to the IPEA a written opinion is, as provided above, considered to be a written opinion is, as provided above, considered to be a written opinion of the IPEA, has applicant is invited to submit to the IPEA a written opinion is, as provided above, considered to be a written opinion of the IPEA, has applicant is invited to submit to the IPEA a written epity together, where appropriate, with amendments, before the expiration of three months from the priority date, written epitons, see Form PCT/ISA/220.	To	RNATIONAL SEA	RCHING AUTH	ORITY		DCT	
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Applicant's or agent's file reference See form PCT/SA/220 FOR FURTHER ACTION See paragraph 2 below					(I	PCT Rule 43 <i>bis</i> .1)	
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	3.	For further details	s, see notes to F	form PCT/ISA/220.		•	
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	Nam	e and mailing address	s of the ISA:		Authorized Officer		nes Pelenga

Seelmann, I

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10/585216

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/043950

AP20 Rec'd PCT/PTO 30 JUN 2006

	Box	κN	o. I Basis of the opinion
1.			egard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
		lar	nis opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search and response index represents the search of the search of the search represents and 23.1(b).
2.	With nec	h re ess	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe	of material:
	Г	3	a sequence listing
	[table(s) related to the sequence listing
	b. fc	orm	at of material:
	Σ		in written format
	C		in computer readable form
	c. tii	me	of filing/furnishing:
	Г		contained in the international application as filed.
			filed together with the international application in computer readable form.
			furnished subsequently to this Authority for the purposes of search.
3.		ha:	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4.	Add	itio	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/043950

	x No. III Non-establishment o	of op	oinion with regard to novelty, inventive step and industrial
			ntion appears to be novel, to involve an inventive step (to be non have not been examined in respect of:
	the entire international applicat	ion,	
\boxtimes	claims Nos. 1, 2, 24-100 (indus	strial	applicability), 101-106, 110-113
bec	ause:		
\boxtimes	the said international application which does not require an inter	n, or natio	the said claims Nos. 24-100 relate to the following subject matter and preliminary examination (specify):
	see separate sheet		
	the description, claims or draw unclear that no meaningful opin		(indicate particular elements below) or said claims Nos. are so could be formed (specify):
\boxtimes	the claims, or said claims Nos. opinion could be formed.	1, 2	are so inadequately supported by the description that no meaningful
\boxtimes	no international search report h 101-106, 110-113	as b	een established for the whole application or for said claims Nos. 1, 2,
	the nucleotide and/or amino ac C of the Administrative Instruct		quence listing does not comply with the standard provided for in Annex in that:
	the written form		has not been furnished
			does not comply with the standard
	the computer readable form		has not been furnished
			does not comply with the standard
	the tables related to the nucleon not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.
	See separate sheet for further of	detail	ls

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/043950

_	Box	x No. IV	Lack of unity of	inventio	n		
1.		In resp	onse to the invitation	n (Form F	PCT/ISA/20	06) to pay additional fees, the applicant has:	
		□ paid additional fees.					
			paid additional fee	s under pr	rotest.		
			not paid additional	fees.			
2.	\boxtimes		uthority found that the tlook the contract to pay addition	•	ment of un	nity of invention is not complied with and chose not to invite	
3.	This	s Autho	rity considers that th	e requirer	ment of un	ity of invention in accordance with Rule 13.1, 13.2 and 13.3	
		complie	d with				
	⊠ ı	not com	plied with for the fol	lowing rea	asons:		
		see se	parate sheet				
4.	Cor	nsequen	itly, this report has b	een estat	olished in r	respect of the following parts of the international application:	
	☑ all parts.						
	□ t	the parts	s relating to claims I	Nos.			
	_	No. V ustrial a				3 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or one supporting such statement	
1.	Stat	tement					
	Nov	elty (N)		Yes: No:	Claims Claims	3, 5-113 1, 2, 4	
	Inve	entive st	ep (IS)	Yes: No:	Claims Claims	3, 5-113 1, 2, 4	
	Indu	ustrial a _l	pplicability (IA)	Yes: No:	Claims Claims	1-23, 101-113	
2.	Cita	itions ar	nd explanations				

see separate sheet

10/585216 AP20 Rec'd PCT/PTO 30 JUN 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/043950

Re Item III

Claims 24-100 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

The initial phase of the search for claims 1 and 2 revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claim(s) is impossible. Consequently, the search and the examination have been restricted to the compounds of present claim 3 and 4. The subject-matter of claims 101-106 and 110-113 has only been searched in view of the scope of the compound claims.

Re Item IV

Lack of unity of invention

Claims 101-106 and 110-113 are not limited to the scope of the claimed compounds. The claimed activity as such is, however, already known in the art, a single general inventive concept between the claimed compounds and the assay and the kit for the use in relation with other compounds than those of the present application is not detectable. This single inventive concept is defined as "involving one or more of the same or corresponding special technical features", which serve to distinguish the current application from the prior art (establishes novelty) and are responsible for the inventive activity. An objection concerning the unity of the invention must be expected in the regional phase.

Re Item V

1. PRIOR ART

Reference is made to the following documents:

D1: EP-A-0 234 622

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/043950

D2: EP-A-1 176 139

D3: US 2003/187002 A1 D4: US 2002/042428 A1

D5: WO 99/55682 A D6: WO 03/006047 A

2. NOVELTY

The subject-matter of claims 3, 5-113 is considered to be novel (Article 33(2) PCT). The essential structural difference between the claimed compounds and those of D1-D4 resides i.a. in the R2 substituent.

The subject-matter of claims 1 and 2 is at least anticipated by D1-D4 (Article 33(2) PCT), these documents represent only an arbitrary selection of the relevant prior art. D1-D4 disclose generic formula with overlapping definitions and examples falling within this overlap (cf. search report). According to page 58 (line 1-2) the compound of claim 4 was commercially available at the time of drawing up this application, therefore, novelty for this compound cannot be acknowledged.

3. INVENTIVE STEP

The subject-matter of claims 3-100 and 107-109 can be considered as involving an inventive step (Article 33(3) PCT). The document D5 is regarded as being the closest prior art to the subject-matter of these claims. It discloses HLA agonists and antagonists. The structures of the active compounds are, however, completely different from the presently claimed. The problem to be solved by the present invention is seen in the provision of further compounds with HLA activity. In view of the experimental part and the other information as given in the description, it can be assumed that this problem has been solved by the compound F15 (claim 4). The prior art D6 discloses further information which relates HLA-DM to HLA-DR. Due to the structural differences even the combined teaching of D5 and D6 would not motivate a man skilled in the art to arrive at the present invention.